Serial No.: 10/815,499

## **CLAIMS:**

- 1. (Original) A semiconductor device, comprising
  - a bottom lead frame having at least one tilt flap;
  - a die attached on the bottom lead frame;
  - a top conductive element attached on the die; and
  - a molding compound for molding the semiconductor device, wherein the molding compound surrounds the at least one tilt flap to lock the molding compound onto said bottom lead frame.
- 2. (Original) The semiconductor device of Claim 1, wherein the bottom lead frame has a first edge and a second edge, the first edge opposite the second edge, and the second edge of the bottom lead frame having a reduced portion extending outward from the die-attached portion of the bottom lead frame, wherein the reduced portion has a portion of the bottom lead frame removed from each of opposite sides thereof.
- 3. (Original) The semiconductor device of Claim 2, wherein the at least one tilt flap is provided at the first edge and extends outward from the bottom lead frame.
- 4. (Original) The semiconductor device of Claim 2, wherein the second edge of the bottom lead frame further comprises at least one tilt flap extending inward towards the bottom lead frame.
- 5. (Original) The semiconductor device of Claim 3, wherein the second edge of the bottom lead frame further comprises at least one tilt flap extending inward towards the bottom lead frame.
- 6. (Original) The semiconductor device of Claim 1, wherein the semiconductor device is a rectifier of surface mount package.
- 7. (Original) The semiconductor device of Claim 1, wherein the thickness of the bottom lead frame is less than 10 mils.

Serial No.: 10/815,499

- 8. (Original) The semiconductor device of Claim 4, wherein the second edge includes two tilt flaps extending inwards towards the bottom lead frame.
- 9. (Original) The semiconductor device of Claim 5, wherein the second edge includes two tilt flaps extending inwards towards the bottom lead frame.
- 10. (Withdrawn) A lead frame for a semiconductor device, comprising a die-attached portion having a first edge and an opposite second edge, the first edge having at least one tilt flap, and the second edge having a reduced portion extending outward from the die-attached portion.
- 11. (Withdrawn) The lead frame of Claim 10, wherein the at least one tilt flap extends outward from the die-attached portion.
- 12. (Withdrawn) The lead frame of Claim 10, wherein the second edge of the die-attached portion further comprises at least one tilt flap extending inward to the die-attached portion.
- 13. (Withdrawn) The lead frame of Claim II, wherein the second edge of the dic-attached portion further comprises at least one tilt flap extending inward to the dic-attached portion.
- 14. (Withdrawn) The lead frame of Claim 12, wherein two tilt flaps extend inwards towards the die-attached portion.
- 15. (Withdrawn) The lead frame of Claim 13, wherein two tilt flaps extend inward towards the dic-attached portion.
- 16. (Withdrawn) The lead frame of Claim 14, wherein each of the two tilt flaps extend upwards from the reduced portion

Serial No.: 10/815,499

ς....

- 17. (Withdrawn) The lead frame of Claim 15, wherein each of the two tilt flaps extend upwards from the reduced portion
- 18. (Withdrawn) The lead frame of Claim 10, wherein the thickness of the lead frame is less than 10 mils.